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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/964,824C

DATE: 06/03/2003 p.6

TIME: 13:40:14

Input Set : A:\Avalon 73.txt

Output Set: N:\CRF4\06032003\I964824C.raw

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4 <110> APPLICANT: Horrigan, Stephen
6 <120> TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
7   Signature Gene Sets
9 <130> FILE REFERENCE: 689290-73
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/964,824C
C--> 11 <141> CURRENT FILING DATE: 2001-09-27
11 <150> PRIOR APPLICATION NUMBER: US/60/236,033
12 <151> PRIOR FILING DATE: 2000-09-28
14 <150> PRIOR APPLICATION NUMBER: US/60/236,032
15 <151> PRIOR FILING DATE: 2000-09-28
17 <150> PRIOR APPLICATION NUMBER: US/60/236,028
18 <151> PRIOR FILING DATE: 2000-09-28
20 <160> NUMBER OF SEQ ID NOS: 583
22 <170> SOFTWARE: PatentIn version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 521
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <222> LOCATION: (1)...(521)
32 <223> OTHER INFORMATION: n=a,t,g or c
35 <400> SEQUENCE: 1
36 gtaatatgga attagaaaca atttggcttt ttagagctga aactagaaac aacacatcca      60
38 ggaacagtag acttctattg tcttcaatcc ctaatgtcct agtgagtatg taccctatgg      120
40 agaaggcaga aatgacgtgg accaggactc cttacatgga gagtgtttta aaggcagttt      180
42 ttaaaaagcc cattttgtga aagaaaccag aaggctcgta attgctgtct gcactgtggt      240
W--> 44 ttctcctggg ggttggggag gggagtggat taaataaaaa gtttagaagg ccatagnata      300
46 aatatcgaaa tagtatgaat tttaatatat acttttaaag gggttaggca atgatgaaaa      360
48 gatatgactg ctttcctttc atttctcatt aaattaaaaat tcccacaaaa gtgcatggca      420
50 tctttttgaa acactgctaa ttttaaagtt tgggaaggtt tatcttcata gccacaatct      480
52 ttgcnaaagc cttggtaccg gnaacaaggc tccagtctgc c                                521
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 481
57 <212> TYPE: DNA
58 <213> ORGANISM: Homo sapiens
60 <400> SEQUENCE: 2
61 ataaatggtt tatttttaac ataagtaaat ttacaaatca aatgaaaaat gaaaaataca      60
63 aaagttcatg aatgaaataa aaaagacact ctcaaaatat taaaacctat ggaaagaaaa      120
65 taagtaatta atgaatgatg tttttgtttc caaatacaat gaagtgattt tttattagag      180
67 tccttgggaa tcctctaagt tacaatacag aagagaatta aataaatcgt atatgatttt      240
69 gtaattagac actctatata tcacagttct ttgttaacct gggcatggaa cgtccctata      300
71 gcataatattt aaaaccatta atttttttta aaaaaatttg agacatgggtt tgttcttggtt      360

```

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```

73 ctctaaatta tgtttcccca tttcccttga atgttctcta ttggccatct tctggaacat      420
75 taaaaaaaaa tcttgaacaa aattctcttg caatgatacg tatcacataa acttgatatg      480
77 c                                                                    481
80 <210> SEQ ID NO: 3
81 <211> LENGTH: 357
82 <212> TYPE: DNA
83 <213> ORGANISM: Homo sapiens
85 <400> SEQUENCE: 3
86 gagcgggtgga gggcgctcact ggggtttcggc gtctggcaag cgattcagct gtctgtctccc      60
88 tagcagccgg ccttcgggtc gggcgctcttc cccggctact gccgcttcag ttcttccggc      120
90 gtggccacga gtcgggttgc acttctgtga tccatcctca tcttctaaag atgcatcctg      180
92 acttatctcc acacttgac actgaagaat gcaacgtctt gattaacttg ctttaaggaa      240
94 gtcacaaaaa tcacaacatt ctgaaatttt ttgggtattg taatgatgtt gatcgggggt      300
96 ggagagaatg cctctagagt gatgtacata gagaacagga gcccagcag ggggcac      357
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 1086
101 <212> TYPE: DNA
102 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 4
105 cgcagccgcc cgcccggccg ctacgcgcc ggccccggga tgacggcgcc ccaggccgcg      60
107 ggtgaggagg cgccaccagg cgtgcggtcc gtcaagggtg tcctgggtgg cgacggcgcc      120
109 tgcgggaaga cgtcgctgct gatggtcttc gccgatgggg ccttccccga gagctacacc      180
111 cccacggtgt ttgagcggtg catggtcaac ctgcaagtga aaggcaaacc tgtgcacctc      240
113 cacatctggg acacagcagg gcaagatgac tatgaccgcc tgcggccctt gttctaccct      300
115 gacgccagcg tctgctgct ttgcttcgat gtcaccagcc cgaacagctt tgacaacatc      360
117 ttttaaccggt ggtaccaga agtgaatcat ttctgcaaga aggtaccat catcgtcgtg      420
119 ggctgaaga ctgacctgcg caaggacaaa tcactggtga acaagctccg aagaaacgga      480
121 ttggagcctg tgacctacca caggggccag gagatggcga ggtccgtggg cgcggtggcc      540
123 tacctcgagt gctcggtcgc gctccatgac aacgtccacg ccgtcttcca ggaggccgcc      600
125 gaggtggccc tcagcagccg cggctgcgaa ttctggcgcc ggattacca gggcttttgc      660
127 gtggtgacct gagcggctcg gggcgctcca gcgacgcggg aaggggcagg gcgctgacct      720
129 gctgctgagc tggctgggct ggaccgggtc cctaggctgt gaccgccgaa ctccactgca      780
131 acagacgggc gccaccaaag ccaggccctg aggcctggga gtcttgact gagaaagggg      840
133 gttcctgggc ccactgctc tgtgtagggc tcgtcctgcg gtgcccgaga atcactcgct      900
135 aaccctatg cccggctccg gaccgacatc ctggagccgc ctgtgcagcc tgatgcccc      960
137 tcgtggctgc tcccagggt gcacctgcca ggacctaatg ttcttaggtc cctctggcca      1020
139 gaaccacac ccggccctt cccacctgct atactggtaa ctgtaacaag aaaaacgaca      1080
141 tcactt                                                                    1086
144 <210> SEQ ID NO: 5
145 <211> LENGTH: 486
146 <212> TYPE: DNA
147 <213> ORGANISM: Homo sapiens
149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <222> LOCATION: (1)...(486)
152 <223> OTHER INFORMATION: n=a,t,g or c
155 <400> SEQUENCE: 5
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W--> 158 cgacantanc tgcagggaga agagccaccc ctcagtgcct taccactact ttgagaaggg      120

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252 cgtgcttcat ccctttattg aagaacagaa aattatgact actctacaag gtggataata 180
254 ttttggtacc tgtggctggc cacagccctg ttcctcaaag ctgaattgat agatttctct 240
256 ttgacttcca agacctagca gttataaggc accttgaaat aaattgtttg tgcctggaaa 300
W--> 258 tgcaaggagg gcaatagctt tgtaaattgg nttacatttt tctccttgaa tttttctagg 360
260 gtcctagtgc ttccgaatca tttaatggca ttgtcggata tcctttttaca tttcaattgc 420
262 aatccatgaa attacattta gaagattctt agtacttaac ggtagtcttc ccatgaattt 480
265 <210> SEQ ID NO: 8
266 <211> LENGTH: 416
267 <212> TYPE: DNA
268 <213> ORGANISM: Homo sapiens
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
273 <222> LOCATION: (1)...(416)
274 <223> OTHER INFORMATION: n=a,t,g or c
277 <400> SEQUENCE: 8
W--> 278 atttcagang aagtttatta agagggtttta ggctttaagc atatgtgaaa agcaaaaatt 60
280 acatttttaaa gtatataatt tgcattttcc accttctcaa tgccaatgaa atattctagg 120
282 agactctata agataaccaa ttgattttct actactccca aatttttaact ttgtaattta 180
284 aagaggaata ggcaaataga gctgctgtgg ttctggttct ccctgcagga tgaagggggc 240
286 ctgcaaaatg tctcctactt ccattctagg tcattcagca aggtgccttc ctctggatgc 300
288 actgtctgta tacttttgcc atgttgcatc acataatgga ttctggccca ccttacacca 360
290 ttttgactgt cagtaaaaga atggtatggt ggcccatctt ttcntttatt aatagc 416
293 <210> SEQ ID NO: 9
294 <211> LENGTH: 371
295 <212> TYPE: DNA
296 <213> ORGANISM: Homo sapiens
298 <400> SEQUENCE: 9
299 tttgacacgt gaagggttat ttatggttat gatgaccctg tcctgcaacg agggactggc 60
301 agccactact gaggaggagg gtcccatctc tctcctgtcg gctttcacgc aggtcacagc 120
303 cagacgtggg gcaaagggtg tccctgtcct acccagccat tcctgggcct gccgcctagg 180
305 ggctcacagg gcccaggagt ccccagctca caggccaggg catcaggcca ggcgcgctcg 240
307 gtgcacaccg cacctgtgga ggacctgggt aactcagga gaccaagagc actggcgggt 300
309 caggatggtt ggcgttcagc tcctacgggg tggggagaag tctgtagccg agagcccagc 360
311 cccctcctgc c 371
314 <210> SEQ ID NO: 10
315 <211> LENGTH: 419
316 <212> TYPE: DNA
317 <213> ORGANISM: Homo sapiens
319 <400> SEQUENCE: 10
320 aagtattctg tccctttaat agctttgttt taggggtaac tcccctcgcc ttgtggggag 60
322 gcttaggacg ggcgggtgca atcctcgaag gggagtctca gcgacctg gggacaccat 120
324 ccacatgcag gcgtagttg ggcctcggc agcgctctc tggggtgccg ggggtccctg 180
326 ttgcccctca gtgccctgtg gcgcaaggcc tgcaggggcc ggctgttacc gctgaggctc 240
328 tggaagatct gagatggagg attctggctc aggagtctca gggagtgc atgaagggag 300
330 gtgatattga gggcccggtc aatgaggatc caggtgacag tctcggagca ggcgggggtg 360
332 ctgagagagc cctgataggt gatgaaaccg aagattcagg gaacaggagc tccaggctc 419
335 <210> SEQ ID NO: 11
336 <211> LENGTH: 270
337 <212> TYPE: DNA

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338 <213> ORGANISM: Homo sapiens
340 <400> SEQUENCE: 11
341 tacagggcaa cccaccccta ggcaaagcct cggcctctcc cacctcccc acgtcatcac      60
343 tgagctgcgg cacgcagagg tgccagccaa ttccgaggag aattgggtcc aatagaaata      120
345 ttacaaaata accagggggc aggtgtgccg tgatcgggaa tcgtgaggga actgagtacc      180
347 agggggccct tggctcccaa cagccccagg ccctggggcg gacttggcac aggaccaag      240
349 agggaactgg ggcattgggg ggccggcaga                                270
352 <210> SEQ ID NO: 12
353 <211> LENGTH: 255
354 <212> TYPE: DNA
355 <213> ORGANISM: Homo sapiens
357 <400> SEQUENCE: 12
358 tttagtttag caccatttat taagtgatct cagctgttgt ttagctgct gcgtgtcacc      60
360 gtgttcttaa aacataaaat gctcttcga ttctcttgt ccaggacaga aggatcttcc      120
362 aggtagcacg ccaacagaac aagagactcc gatgacgcca gcttcaatga tgggtgccatc      180
364 cagagaggga gagggctcatg gcacattcaa ccgcggttc cagaggtttt gaaaaaggag      240
366 ctttggggg cccag                                255
369 <210> SEQ ID NO: 13
370 <211> LENGTH: 358
371 <212> TYPE: DNA
372 <213> ORGANISM: Homo sapiens
374 <400> SEQUENCE: 13
375 caggttgaat aaaatttaat tgataatgct ttatattaat attctctttt gcatttaaat      60
377 attatatgaa tactacaagc atccaacaag aaataacctt cataaattag cataatttat      120
379 agcaggaaac ccaaataaac taaacttggc tgcctaaaat aatttgtcta aagggggata      180
381 tgctctttgt aagtatcatg ctgataaaac cataaaaatt cttttagagg aatgaggatt      240
383 aaaatgaaat ttctttatga cagggaaaaa aataataatt tgtctaaaag tgtaaaattt      300
385 taaaagcaaa cattatacac ataaccagca caattatttc catcttaaaa cattggtt      358
388 <210> SEQ ID NO: 14
389 <211> LENGTH: 266
390 <212> TYPE: DNA
391 <213> ORGANISM: Homo sapiens
393 <400> SEQUENCE: 14
394 atggctaatt gtgacacact ttattaattt aaaaacacgc cttcccaca tagtgcgatga      60
396 ggcattgtga ctttttcta gaaggacatg aatagtgatg tggaggtag gtggaggatca      120
398 ggcattctaca gggtcattcg aggaggaaca gattcaagct ttcggacgat cagtgttttg      180
400 taaatagcag catcatcaga tctaagacaa cattggacct ggcagggcct tttctttggg      240
402 tggcattaat tactccagat tcagac                                266
405 <210> SEQ ID NO: 15
406 <211> LENGTH: 287
407 <212> TYPE: DNA
408 <213> ORGANISM: Homo sapiens
410 <400> SEQUENCE: 15
411 aacgtaaaca caaagtctca tttatttttg tctgaagcac acaggagctc actcagcaca      60
413 ataacagtaa gcgaatcata caaatattga gaaaaaatgt tcctatgaat acatacatgt      120
415 atattcttaa gagtagcgat caggagttaa acaacaaatg taaagtgggt ttctctaaag      180
417 aatgctttct gacaggcttt tgggttgaa atggacaggt aaatcactgt cacataacag      240
419 gtaagctaag aat'aacttct gttacccaag tcatttgaac cctgtgg                                287
422 <210> SEQ ID NO: 16

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**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/09/964,824C

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Input Set : A:\Avalon 73.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 297,485,502  
Seq#:5; N Pos. 66,69,389,483  
Seq#:7; N Pos. 331  
Seq#:8; N Pos. 9,404  
Seq#:16; N Pos. 113,115,248,252  
Seq#:17; N Pos. 15,386  
Seq#:21; N Pos. 90,258  
Seq#:22; N Pos. 330,361,419  
Seq#:23; N Pos. 371,416  
Seq#:24; N Pos. 217,232,315,333  
Seq#:27; N Pos. 26,199  
Seq#:28; N Pos. 145,222,228  
Seq#:51; N Pos. 92,118,152,153,235,237,238,239,244,245,248,263,270,284  
Seq#:52; N Pos. 12,352,359,400,408  
Seq#:54; N Pos. 346,368  
Seq#:55; N Pos. 180  
Seq#:56; N Pos. 27  
Seq#:57; N Pos. 432,478,495  
Seq#:59; N Pos. 481  
Seq#:63; N Pos. 104,120,188  
Seq#:64; N Pos. 44,146,265,285  
Seq#:65; N Pos. 11,130,133,190,313  
Seq#:66; N Pos. 375,417  
Seq#:68; N Pos. 146  
Seq#:69; N Pos. 187,223  
Seq#:70; N Pos. 3  
Seq#:71; N Pos. 158,161,274,393  
Seq#:77; N Pos. 8,10,11,21,28,37,54,55,117,126,130,133,152,154,155,158,159  
Seq#:77; N Pos. 160,161,164,179,180,187,193,335,417,461,503,526  
Seq#:78; N Pos. 398  
Seq#:79; N Pos. 519,535  
Seq#:80; N Pos. 575  
Seq#:81; N Pos. 167  
Seq#:90; N Pos. 274,366,371,458,463,496,504,510,519  
Seq#:91; N Pos. 12,89,109,191,468  
Seq#:93; N Pos. 2,3,35,158,199,238,271,421,459,524,540  
Seq#:107; N Pos. 503,512  
Seq#:108; N Pos. 343  
Seq#:118; N Pos. 59,315,325,330,343,355,363,369,394  
Seq#:123; N Pos. 410  
Seq#:124; N Pos. 332,463,492,510,525,541,546,551,589,606,622  
Seq#:125; N Pos. 515  
Seq#:126; N Pos. 3,4,5,12,174,390,401,429,483,524,530,532,533,534,535,536  
Seq#:126; N Pos. 537,538,539,540,541,542,543,544,545,546,547,548,549,550

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: **US/09/964,824C**

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Input Set : **A:\Avalon 73.txt**  
Output Set: **N:\CRF4\06032003\I964824C.raw**

Seq#:126; N Pos. 551,552,553,554,556,557,560,561,568,569,570,572,573,574  
Seq#:126; N Pos. 575,576,577,578,579,580,581,583,584,585,586,587,588,589  
Seq#:126; N Pos. 591,593,594,595,597,598,599,600,602,603,604,606,607,609  
Seq#:126; N Pos. 610,611,612,613,614,615,616,619,620,621,622,624,625,626  
Seq#:126; N Pos. 627,631,632,633,634,635,636,638,639,641,643,644,646,648  
Seq#:126; N Pos. 649,651,652,653,654,655,656,659,662,663,665,667,668,669  
Seq#:126; N Pos. 671,674,675,677,678,679,680,681,682,683,684,686,688,690

## VERIFICATION SUMMARY

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Input Set : A:\Avalon 73.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240  
M:341 Repeated in SeqNo=1  
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
M:341 Repeated in SeqNo=5  
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:300  
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
M:341 Repeated in SeqNo=8  
L:436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60  
M:341 Repeated in SeqNo=16  
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
M:341 Repeated in SeqNo=17  
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60  
M:341 Repeated in SeqNo=21  
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:300  
M:341 Repeated in SeqNo=22  
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:360  
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180  
M:341 Repeated in SeqNo=24  
L:695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
M:341 Repeated in SeqNo=27  
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120  
M:341 Repeated in SeqNo=28  
L:1209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60  
M:341 Repeated in SeqNo=51  
L:1231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0  
M:341 Repeated in SeqNo=52  
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:300  
M:341 Repeated in SeqNo=54  
L:1310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120  
L:1330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0  
L:1374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:420  
M:341 Repeated in SeqNo=57  
L:1431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:480  
L:1504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:60  
M:341 Repeated in SeqNo=63  
L:1526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0  
M:341 Repeated in SeqNo=64  
L:1552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0  
M:341 Repeated in SeqNo=65  
L:1590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:360  
L:1631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:120  
L:1657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:180  
L:1675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0  
L:1690 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:120  
M:341 Repeated in SeqNo=71

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L:1820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0

M:341 Repeated in SeqNo=77

L:1866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:360

L:1900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:480

L:1936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:540





Creation date: 11-28-2003  
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Team: OIPEBackFileIndexing  
Dossier: 09964824

Legal Date: 06-10-2003

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